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L1: Entry 1 of 1   File: USPT   Dec 3, 2002

DOCUMENT-IDENTIFIER: US 6490563 B2
TITLE: Proofreading with text to speech feedback

US Patent No. (1):
6490563

Brief Summary Text (6):
Another text editing module in common use foremost Asian languages is a converter
system that converts phonetic symbols to a selected language. Such a text editing
module is often referred as IME (Input Method Editor) in "WINDOWS-95" or "WINDOWS NT"
operating systems sold by Microsoft Corporation of Redmond, Wash. The phonetic symbols
can be provided to a computer using a standard keyboard. The computer includes a
converter module that converts the phonetic symbols to the selected language. For
example, it is common to form Japanese text in a computer system by entering phonetic
characters from an English or Latin keyboard. Inputting Japanese phonetic characters
using the letters of the Latin alphabet is called "Romaji". The computer system
compares each of the Romaji characters with a stored dictionary and produces a "Kana"
sequence ("Kanas"). Kanas are Japanese syllabic symbols which represent the sound of
Japanese. The IME converter then converts the Kana form into "Kanji" form, which is a
formal Japanese writing language, through sophisticated linguistic analysis. (The
formal Japanese writing system actually consists of a mixture of Kanjis and Kanas,
where the Kanjis represent most of the content information and bear no direct
information about pronunciation.)

Detailed Description Text (6):
A number of program modules can be stored on the hard disk, magnetic disk 59, optical
disk 61, ROM 54 or RAM 55, including an operating system 65, one or more application
programs 66, other program modules 67, and program data 68. A user can enter commands
and information into the personal computer 50 through input devices such as a keyboard
70, a handwriting tablet 71, a pointing device 72 and a microphone 92. Other input
devices (not shown) can include a joystick, game pad, satellite dish, scanner, or the
like. These and other input devices are often connected to the processing unit 51
through a serial port interface 76 that is coupled to the system bus 53, but can be
connected by other interfaces, such as a sound card, a parallel port, a game port or a
universal serial bus (USB). A monitor 77 or other type of display device is also
connected to the system bus 53 via an interface, such as a video adapter 78. In
addition to the monitor 77, personal computers typically include other peripheral
output devices such as a speaker 83 and a printer (not shown)..

Detailed Description Text (37):
Conversion of Kana and Kanji string to speech for proofreading feedback can be
performed automatically when a predetermined quantity of kanas (or Romajis) have been
entered by the user. Alternatively, conversion can take place when a selected key, such
as a "space" key (for example, in Microsoft IME97 system, a "space" key will trigger
the Kana->kanji conversion which is very natural, and which can also be used to
initiate audio feedback playback), has been operated by the user or selected
punctuation marks, such as periods ("MaRu" in Japanese have been entered. Although
described above with respect to the Kana IME system in the Japanese language, it should
be understood that this aspect of the present invention is well suited for other
languages such as Chinese, Hindi, Korean or any other language where homonyms are
present and conversion errors can take place. Particularly in the case of Chinese,
there is almost no effective means of detecting typing or conversion errors because
neither explicit word boundaries nor semantic separators (like Kana) are presented. The
audio feedback provides effective and efficient means to detect typing or conversion

errors for the two most popular Chinese input methods: Pinyin and Wu-Bi IME's. Since Pinyin IME is not composed of tones and Wu-Bi is a stroke-based IME, typing or conversion errors will almost definitely generate different perceived sound and therefore become highly noticeable. However, this aspect of the present invention is also well suited for any language, such as English, described above, where the system can be useful in detecting input errors entered by the user.

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L2: Entry 1 of 1   File: USPT   May 6, 2003

DOCUMENT-IDENTIFIER: US 6560559 B2
TITLE: System and method for detecting and correcting incorrect hand position of a computer user

US Patent No. (1):
6560559

Detailed Description Text (8):
Referring to FIG. 2C, step 295 generates a visible warning indicating a potential presence of incorrect hand positions. The visible warning may be comprised of a message on display 180 indicating the presence of an incorrect word, etc. Step 297 then generates an audible warning of the incorrect hand position. The audible warning may be any suitable sound generated by speaker 165. It is noted that the generation of an audible warning is preferred because often times typing is performed while not looking at what is displayed.

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